

CLAIMS

What is claimed is:

1. A refrigerator comprising:
a main body comprising a freezing compartment and a refrigerating compartment;
an evaporating unit provided in the main body; and
a first duct and a second duct in communication with the evaporating unit to guide cooling air generated from the evaporating unit to the freezing compartment and the refrigerating compartment of the main body, respectively,
the second duct being provided around an edge of a rear of the refrigerating compartment of the main body and comprising a cooling air supply hole to supply the cooling air to the refrigerating compartment.
2. The refrigerator of claim 1, wherein the second duct further comprises:
a main duct provided at an upper part of the edge of the refrigerating compartment and to which the cooling air is supplied from the evaporating unit; and
side ducts in communication with the main duct and provided on opposite sides of the edge of the refrigerating compartment and comprising a side cooling air supply hole, respectively.
3. The refrigerator of claim 2, further comprising a damper provided inside of the main duct to adjust a quantity of the cooling air flowing into the refrigerating compartment.
4. The refrigerator of claim 3, wherein the main duct further comprises a first cooling air channel and a second cooling air channel on the inside thereof, to guide the cooling air to the side ducts.
5. The refrigerator of claim 2, wherein the main duct further comprises:
a main cooling air supply hole on opposite sides of a front side thereof, and
a cooling air channel on the inside thereof, to guide the cooling air to the main cooling air supply hole.



6. The refrigerator of claim 5, further comprising a lamp disposed on the main duct as a single body with the main duct.

7. The refrigerator of claim 2, wherein the side ducts extend to a lower part of the refrigerating compartment.

8. The refrigerator of claim 3, wherein the main duct further comprises:
a main cooling air supply hole on opposite sides of a front side thereof, and
a cooling air channel on the inside thereof, to guide the cooling air to the main cooling air supply hole.

9. The refrigerator of claim 8, further comprising a lamp disposed on the main duct as a single body with the main duct.

10. The refrigerator of claim 3, wherein the side ducts extend to a lower part of the refrigerating compartment.

11. The refrigerator of claim 4, wherein the main duct further comprises:
a main cooling air supply hole on opposite sides of a front side thereof, and
a third cooling air channel on the inside thereof, to guide the cooling air to the main cooling air supply hole.

12. The refrigerator of claim 11, further comprising a lamp disposed on the main duct as a single body with the main duct.

13. The refrigerator of claim 4, wherein the side ducts extend to a lower part of the refrigerating compartment.

14. The refrigerator of claim 1, further comprising a guide duct in communication with the evaporating unit to supply the cooling air to the first and second ducts.

15. The refrigerator of claim 2, wherein the cooling air supplied to the side ducts is supplied from the upper part of the edge of the rear of the refrigerating compartment through the side cooling air supply hole and cooling air guided to a front side of the main duct is supplied from the opposite sides of the edge of the rear of the refrigerating compartment through the cooling air supply hole to keep the temperature distribution in the refrigerating compartment uniform.

16. The refrigerator of claim 11, wherein the cooling air flowing into the main duct is guided to the side ducts through the first and second cooling channels and to a front side of the main duct through the third cooling air channel, simultaneously.

17. The refrigerator of claim 14, wherein the guide duct comprises a connecting hole on a side thereof, connected to the first duct and an upper and a lower cover connected to each other to form a cooling air channel with the second duct.

18. A refrigerator comprising:
a freezing compartment and a refrigerating compartment to store food therein;
an evaporating unit to generate cooling air in the refrigerator;
a plurality of ducts in communication with the evaporating unit to guide the cooling air into the freezing compartment and the refrigerating compartment, wherein the plurality of ducts are provided at a rear of the refrigerator and comprise cooling air supply holes to supply cooling air into the refrigerator.

19. The refrigerator of claim 18, wherein the plurality of ducts comprise a duct provided in an upper portion of the refrigerating compartment and side ducts provided on opposite sides of the refrigerating compartment.

20. The refrigerator of claim 19, further comprising a lamp disposed on a front surface of the duct, to illuminate the refrigerating compartment.

21. The refrigerator of claim 18, further comprising a guide duct to supply and distribute the cooling air generated from the evaporating unit to the plurality of ducts and comprising a connecting hole on a side thereof, to be connected to one of the plurality of ducts.

22. The refrigerator of claim 19, wherein the side ducts are bar shaped and extend to a lower portion of the refrigerating compartment to cool the refrigerating compartment and maintain a uniform temperature distribution.